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09/840,982	04/25/2001	Gerd Hugo	24580	5343
20529 NATH & ASS	7590 05/01/2	EXAMINER		
112 South Wes	st Street		BRUNSMAN, DAVID M	
Alexandria, VA 22314			ART UNIT	PAPER NUMBER
			1755	
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			05/01/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
		09/840,982	HUGO, GERD			
	Office Action Summary	Examiner	Art Unit			
		David M. Brunsman	1755			
 Period for	The MAILING DATE of this communication app Reply	ears on the cover sheet with the c	orrespondence address			
A SHO WHICH - Extensi after SI - If NO p - Failure Any rep	RTENED STATUTORY PERIOD FOR REPLY IEVER IS LONGER, FROM THE MAILING DATE ons of time may be available under the provisions of 37 CFR 1.13 X (6) MONTHS from the mailing date of this communication. eriod for reply is specified above, the maximum statutory period w to reply within the set or extended period for reply will, by statute, ply received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
2a) <u></u> ⊤	Responsive to communication(s) filed on <u>27 North</u> This action is FINAL . 2b)⊠ This Since this application is in condition for allowar	action is non-final.	osecution as to the merits is			
C	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositio	n of Claims					
5)□ C 6)⊠ C 7)□ C	Claim(s) <u>1,2,5,7-11,13-16 and 18</u> is/are pendina) Of the above claim(s) <u>8-11,13-16 and 18</u> is/Claim(s) is/are allowed. Claim(s) <u>1,2,5 and 7</u> is/are rejected. Claim(s) is/are objected to. Claim(s) <u>1,2,5,7-11,13-16,18</u> are subject to res	are withdrawn from consideration				
Applicatio	n Papers					
10)☐ TI A F	he specification is objected to by the Examine he drawing(s) filed on is/are: a) _ acception acception acception to the complicant may not request that any objection to the complex placement drawing sheet(s) including the correction he oath or declaration is objected to by the Examination is objected to be accepted to the Examination is objected to the Ex	epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority un	nder 35 U.S.C. § 119					
a)	cknowledgment is made of a claim for foreign All b) Some * c) None of: Certified copies of the priority documents Copies of the certified copies of the priority documents plication from the International Bureause the attached detailed Office action for a list	s have been received. s have been received in Applicati ity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachment(s	s)					
1) Notice 2) Notice 3) Informa	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate			

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Applicant's response filed 27 November 2006 has been carefully considered. Applicant's election with traverse of the species having a binder of emulsions of acrylates, a first pigment being the combination of "Red 33" and copper phthalocyanine and, the second pigment is stainless steel flakes is acknowledged. The scope of examination has been expanded to include all species wherein the binder is emulsions of acrylates, the first pigment includes *a phthalocyanine dye* and, the second pigment is steel flakes. This scope is consistent with the scope of the search required to examine the elected species. Applicant argues a serious burden on the office would not be present to examine all of the claimed species. This is not found persuasive. As pointed out in the requirement, the examination of all species would entail search of hundreds of subclasses and consideration of tens of thousands of documents.

The requirement is still deemed proper and is therefore made FINAL.

Claims 1, 2, 5, 7-11, 13-16 and 18 are pending. Claims 8-11 and 18 are noted by applicant as withdrawn (non-elected species). Claims 13-16 are similarly withdrawn from consideration a directed to further mixtures of pigments not part of the elected species. Claims 1, 2, 5 and 7 are pending.

Comparison of the components of the instant invention to the prior art is complicated by the use of terms such as "first pigment" and "second pigment", etc. in both the instant claims and the prior art. For purposes of clarity, the examiner has relabeled the components to be compared as "(A)"-the binder in the instant claims, "(B)"-first pigment in the instant claims and, "(C)"- the second pigment in the instant claims.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 2, 5 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent 6017981. (US Patents 6692824, 3577379, 5962143, 5840364, 5540998 and 5405680 are cited to help establish the level of ordinary skill in the art)

The reference teaches a coating composition comprising a binder having transmission in the thermal infrared range greater than 40% that may be an aqueous dispersion (emulsion) based on various acrylates. See column 4, lines 4-8. Column 2, lines 51-55 teach that the near IR absorbency of the patent composition is due to the particles of component (B) and the following discussion of tinting particles indicates that the composition remains substantially transparent to visible light, overlapping the 40-60% transmission indicated by the instant claims.

Component (B)- the second particle of the reference and the first pigment of the instant claims-may be selected from phthalocyanines (see, column 3, line 65). It would have been obvious to one of ordinary skill in the art to select pigments based on their known transmission and absorbency characteristics at particular wavelengths to affect the transmission and absorbency characteristics of a coating composition as a whole because the prior art as a whole clearly teaches that it is within the level of ordinary skill in the art to select these components based on their individual spectral selectivity to make a coating composition having an expected composite of the spectral properties of the components. US 6017981 as a whole and particularly the passages relied upon clearly establish that such selection based on the characteristics falls within the level of ordinary skill in the art. US 6692824 (this patent was published as EP 0548822 on 30 June 1993), 3577379, 5962143, 5840364, 5540998 and 5405680 further establish

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the level of ordinary skill in the art in that they each exemplify the selection of particular components having known spectral characteristics combined to produce a composition having a composite of those individual characteristics. Simplified, if one selects a pigment that absorbs near IR radiation, a second pigment that absorbs UV radiation and a third pigment that reflects visible light, one of ordinary skill in the art would expect that the resulting combination of the three in a coating composition would produce a coating that absorbs IR radiation, absorbs UV radiation and reflects visible light.

Component (C)-the flakey particle of the prior art and second pigment of the instant claims may be selected from flakey particles of stainless steel to affect reflectivity in the thermal IR range. See column 3, line 17. The formula at column 2, lines 32-33 teaches that the high R required by the prior art would require a high (>=20%) transmission in the thermal IR range. As with the selection of component (B), it would have been obvious to one of ordinary skill in the art to select pigments based on their known transmission and reflectancy characteristics at particular wavelengths to affect the transmission and reflectancy characteristics of a coating composition as a whole because the prior art as a whole clearly teaches that it is within the level of ordinary skill in the art to select these components based on their individual spectral selectivity to make a coating composition having an expected composite of the spectral properties of the components. US 6017981 as a whole and particularly the passages relied upon clearly establish that such selection based on the characteristics falls within the level of ordinary skill in the art. US 6692824, 3577379, 5962143, 5840364, 5540998 and 5405680 further establish the level of ordinary skill in the art in that they each exemplify the selection of

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particular components having known spectral characteristics combined to produce a composition

having a composite of those individual characteristics.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David M. Brunsman whose telephone number is 571-272-1365.

The examiner can normally be reached on M, Th, F, Sa; 7:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jerry Lorengo can be reached on 571-272-1233. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

David M Brunsman Primary Examiner Art Unit 1755

DMB

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